

## SUPERELEVATION AND WIDENING TABLE, emex = 8% OR LESS 40 M.P.H. 50 M.P.H.

DESIGN SPEED	30 M.P.H. UR LESS					40 M.P.H.					50 M.P.H.					60 M.P.H.				70	70 M.P.H.		
NORMAL SURFACE WIDTH			20'	22'	24'			20'	22'	24'			20'	22'	24'			22'	24'			24'	]
RADIUS (FEET)	e%	L		W		e%	L		W		e7.	L		W		6%	L		W	е%.	L	w	1
17000	NC	0	0	0	0	NC	0	0	0	0	NC	0	0	0	0	NC	0	0	0	NC	0	0	1
14000	NC	0	0	0	0	NC	0	0	0	0	NC	0	0	0	0	NC	0	0	0	RC	60	0	]
12000	NC	0	0	0	0	NC	0	0	0	0	NC	0	0	0	0	NC	0	0	0	RC	60	0	
10000	NC	0	0	0	0	NC	0	0	0	0	NC	0	0	0	0	RC	53	0	0	2.1	63	0	
8000	NC	0	0	0	0	NC	0	0	0	0	NC	0	0	0	0	2.1	56	0	0	2.6	78	0	1
6000	NC	0	0	0	0	NC	0	0	0	0	RC	48	0	0	0	2.7	72	0	0	3.4	102	0	]
5000	NC	0	0	0	0	RC	41	0	0	0	2.4	58	2.0	0	0	3.2	85	0	0	4.1	123	0	
4000	NC	0	0	0	0	RC	41	2.0	0	0	2.9	70	2.0	0	0	3.9	104	0	0	4.9	147	0	1
3500	NC	0	0	0	0	2.3	48	2.0	0	0	3.2	77	2.0	0	0	4.4	117	0	0	6.5	165	0	I
3000	RC	36	2.0	0	0	2.6	54	2.0	0	0	3.7	89	2.5	0	0	5.0	133	0	0	6.3	189	0	1
2500	RC	36	2.0	0	0	3.0	62	2.5	0	0	4.3	103	2.5	0	0	5.7	152	0	0	7.2	216	0	1
2000	2.4	44	2.5	0	0	3.7	77	2.5	0	0	5.1	122	2.5	0	0	6.6	176	2.0	0	7.9	237	0	1
1800	2.6	47	2.5	0	0	4.0	83	3.0	0	0	5+5	132	3.0	2.0	0	7.1	189	2.0	0				-
1600	2.9	53	2.5	0	0	4.4	91	3.0	0	0	5.9	142	3.0	2.0	0	7.5	200	2.0	0	MIN	I. RAD	IUS =	= 182
1400	3.2	58	3.0	0	0	4.8	99	3.0	2.0	0	6.4	154	3.0	2.5	0	7.8	208	2.5	0	1			
1200	3.6	65	3.0	2.0	0	5.4	112	3.5	2.5	0	7.0	168	3.5	2.5	0								
1000	4.2	76	3.5	2.5	0	6.0	124	3.5	2.5	0	7.6	182	3.5	3.0	2.0	] MIN	N. RAD	IUS =	= 1205	5'			
900	4.5	82	3.5	2.5	0	6.4	132	4.0	3.0	2.0	7.8	187	4.0	3.5	2.5	l							
800	4.9	89	4.0	3.0	2.0	6.8	141	4.0	3.0	2.0	8.0	192	4.5	3.5	2.5	]							
700	5.3	96	4.0	3.0	2.0	7.2	149	4.5	3.5	2.5		IIN E	PAD THS	: = 75	n'								
600	5.8	105	4.5	3.5	2.5	7.6	157	5.0	4.0	3.0	MIN. RADIUS = 750'												
500	6.4	116	5.5	4.5	3.5	8.0	165	5.5	4.5	3.5	1												
450	6 7	100		4 6	2 6						-												

6.7 122 5.5 4.5 3.5 7.1 129 6.0 5.0 4.0 7.5 136 7.0 6.0 5.0 7.8 142 7.5 6.5 5.5 8.0 145 9.0 8.0 7.0 350 300 250

400

MIN. RADIUS = 250'

## SUPERELEVATION AND WIDENING TABLE, emax = 4%

SOI ENEEL TATTON AND WIDELING											1 10		CHRIX		•				
DESIGN SPEED	3	0 M.P	.H. D	R LES	S		40	M.P.	н.			M.P.	н.	60 M.P.H.					
NORMAL SURFACE WIDTH			20'	22'	24'	24'		20'	22'	24'			20'	22'	24'			22'	24'
RADIUS (FEET)	e%	L		W		e%	L		W		e%	L		W		e% L		1	·
10000	NC	0	0	0	0	NC	0	0	0	0	NC	0	0	0	0	NC	0	0	0
8000	NC	0	0	0	0	NC	0	0	0	0	NC	0	0	0	0	RC	53	0	0
6000	NC	0	0	0	0	NC	0	0	0	0	RC	48	0	0	0	2.3	61	0	0
5000	NC	0	0	0	0	NC	0	0	0	0	RC	48	2.0	0	0	2.5	67	0	0
4000	NC	0	0	0	0	RC	41	2.0	0	0	2.3	55	2.0	0	0	2.8	75	0	0
3500	NC	0	0	0	0	RC	41	2.0	0	0	2.5	60	2.0	0	0	3.0	80	0	0
3000	NC	0	2.0	0	0	2.1	43	2.0	0	0	2.7	65	2.5	0	0	3.3	88	0	0
2500	RC	36	2.0	0	0	2.4	50	2.5	0	0	2.9	70	2.5	0	0	3.5	93	0	0
2000	RC	36	2.0	0	0	2.6	54	2.5	0	0	3.2	77	2.5	0	0	3.8	101	2.0	0
1800	2.1	38	2.5	0	0	2.7	56	3.0	0	0	2.3	79	3.0	2.0	0	3.9	104	2.0	0
1600	2.2	40	2.5	0	0	2.9	60	3.0	0	0	3.5	84	3.0	2.0	0	4.0	107	2.5	0
1400	2.4	44	2.5	0	0	3.0	62	3.0	2.0	0	3.7	89	3.0	2.5	0	MIN.	RADI	IIIS =	1505
1200	2.5	45	3.0	2.0	0	3.2	66	3.5	2.5	0	3.9	94	3.5	2.5	0				
1000	2.7	49	3.5	2.5	0	3.5	72	3.5	2.5	0	4.0	96	3.5	3.0	2.0				
900	2.9	53	3,5	2.5	0	3.6	74	4.0	3.0	2.0	м	IN. R	ADIUS	= 93	o'				
800	3.0	55	4.0	3.0	0	3.8	79	4.0	3.0	2.0									
700	3.2	58	4-0	3.0	2.0	3.9	81	4.5	3.5	2.5									
600	3.4	62	4.5	3.5	2.5	4.0	83	5.0	4.0	3.0	l								

MIN. RADIUS = 565'

3.4 62 4.5 3.5 2.5 3.6 65 5.5 4.5 3.5 3.7 67 5.5 4.5 3.5 3.8 69 6.0 5.0 4.0 3.9 71 7.0 6.0 5.0 450 400 350 300

4.0 73 7.5 6.5 5.5 MIN. RADIUS = 300'

- 1) "NC" DENOTES NORMAL CROSS SLOPE.
  2) "RC" DENOTES REMOVE ADVERSE CROSS SLOPE. SUPERELEVATE AT NORMAL CROSS SLOPE.
  3) "6" OBNOTES THE SUPERELEVATION IN PERCENT (%).
  4) "L" THE LENGTH OF SUPERELEVATION RUNDEF AND WIDENING TRANSITION IN FEET FOR A 2 LANE ROADWAY.
  5) "Y" THE WIDENING IN FEET FOR SURFACING AT INSIDE SHOULDEST.
  6) VALUE FOR A RADIUS NOT SHOWN IN ADDRETABLE SHALL BE IDENTICAL TO THOSE FOR THE NEAREST TABULATED RADIUS. IN CASE OF TIE, USE VALUES OF NEXT LARGER RADIUS.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION SUPERELEVATION. SPIRALS AND WIDENING (UNDIVIDED HIGHWAYS)

DATE:\_ EFFECTIVE: 04-01-2002

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